SCALABLE METHOD FOR RAPIDLY DETECTING POTENTIAL GROUND VEHICLES UNDER COVER USING VISUALIZATION OF TOTAL OCCLUSION FOOTPRINT IN POINT CLOUD POPULATION

ABSTRACT OF THE DISCLOSURE

5   Methods, computer-readable media, and systems for facilitating detection of an object in a point cloud of three-dimensional imaging data representing an area of study where the object potentially is obscured by intervening obstacles are provided. The imaging data is processed to identify elements in the point cloud having substantially common attributes signifying that the identified elements correspond to a feature in the area of study. An

10   isosurface is generated associating the elements having substantially common attributes. A reversed orientation visualization model for a region of interest is generated. The reversed orientation visual model exposes areas of total occlusion that potentially signify presence of the object.